FAO Plant Protection Bulletin

A Publication of the
World Reporting Service on Plant Diseases and Pests

TABLE OF CONTENTS AND INDEX TO VOLUME EIGHT

October 1959 — September 1960

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS
ROME

30 OCT 1961

STABILIMENTO TIPOGRAFICO FAUSTO FAILLI — ROMA

TABLE OF CONTENTS

No. 1 - OCTOBER 1959

Plant disease investigation in the Federation of Malaya, *Anthony Johnston* 1
Diseases and pests of date palm in the Sahara and North Africa, *A. Calcat* 5
Outbreaks and new records
Philippines, United States 11

No. 2 - NOVEMBER 1959

Insect pests and fruit spotting of Gros Michel bananas in Ecuador, *Harold R. Yust* 13
World distribution of *Cercospora traversiana, E. E. Leppik* 19
Outbreaks and new records
British Honduras, India 22
Plant quarantine announcements
Australia, Poland 23

No. 3 - DECEMBER 1959

Notes on the biological control of pests of agriculture in Chile, *Riccardo Isla Marco* 25
The identification of barley stripe mosaic virus in Israel, *F. E. Nitzany and R. Kenneth* 31
Plant quarantine announcements
Sweden 33

No. 4 - JANUARY 1960

Studies with chemical seed treatments as bird repellents for the protection of germinating maize in the Mexican tropics, *William R. Young and Daniel Candia Zevallos* 37
Tristeza disease in native commercial citrus trees in the Mediterranean, *I. Reichert, A. Bental, O. Ginsburg and I. Yoffe* 43
Outbreaks and new records
United Kingdom, United States 46
Plant quarantine announcements
Brazil, Israel, United Kingdom (Scotland) 48
News and notes 52

No. 5 - FEBRUARY 1960

Distribution of strains of *Phytophthora palmivora* from *Theobroma cacao* in West Africa, *P. D. Turner* 53
On " leaf curl " of cotton in the Philippines, *M. A. Nour* 55
Outbreaks and new records
Dominican Republic, India, Nicaragua 57
Plant quarantine announcements
Argentina, India, Netherlands New Guinea 60
News and notes 63

No. 6 - MARCH 1960

The virus complex causing swollen shoot disease of cacao in West Africa, *I. M. Thresh and T. W. Tinsley* 65
Outbreaks and new records
Nicaragua, Peru, United Arab Republic 70
Plant quarantine announcements
Czechoslovakia, New Zealand, Spain 72
News and notes 75

No. 7 - APRIL 1960

Mosaic of rice in the Philippines, *A. L. Martínez, H. T. Bergonia, J. T. Escober and B. S. Castillo* 77
Experimental transmission of vine "infectious degeneration" virus and its occurrence on various host in Italy, *R. Ciferri and A. Corte* 79
Annual and monthly frequencies of desert locust infestations, *O. B. Lean* 82
Outbreaks and new records
Peru 86
Plant quarantine announcements
Belgium, Chile, France, United States 87
News and notes 88

No. 8 - MAY 1960

Quarantine arrangements for intercepting cocoa material infected with West African viruses, *J. M. Thresh* 89
Some important developments in plant diseases in the United States in 1959, *Hilde McGrath and Paul R. Miller* 93
Adoretus versutus in West Pakistan, *A.S.K. Ghouri and A. M. Salik* 100
Plant quarantine announcements
Mexico, Norway, United Kingdom (England and Wales; Scotland and Northern Ireland) 102
News and notes 104

No. 9 - JUNE 1960

Preliminary report on the boang disease of coconut in Mindanao, the Philippines, *Bernardo S. Castillo and Karl Maramorosch* 105
Plant diseases in the British Colonial Dependencies, *J. C. F. Hopkins* 109
Observations on nematodes in roots of plants in the Sudan, *Heinz Decker and El-Tigani Mohamed El-Amin* 110
Outbreaks and new records
Argentina, Federation of Rhodesia and Nyasaland, India 113
Plant quarantine announcements
Federation of Rhodesia and Nyasaland, Mexico 115
News and notes 116

No. 10 - JULY 1960

Plant diseases in the Province of Mendoza, Argentina, *J. M. Feldman and R. E. Pontis* 117
Introduction of *Prospaltella perniciosi* for control of San Jose scale in India and Pakistan, *V. Sudha Rao and V. P. Rao* 120
Outbreaks and new records
Pakistan 124
Plant quarantine announcements
Guatemala, Netherlands New Guinea, Pakistan, United States, Venezuela 125
News and notes 127

No. 11 - AUGUST 1960

Occurrence of a new sunflower disorder in Yugoslavia, *M. Sutić* 129
Notes on cotton diseases in Peru, *C. Bazán de Segura* 132
Outbreaks and new records
Pakistan, United States 135
Plant quarantine announcements
Greece, Republic of the Philippines 137

No. 12 - SEPTEMBER 1960

Injuries in citrus attributed to Brevipalpus mites, including Brevipalpus gall, a newly reported disorder in sour-orange seedlings, *L. C. Knorr, B. N. Webster and Gino Malaguti* 141
Plant quarantine announcements
Republic of Senegal 150
News and notes 156

INDEX

Abo-el-dahab, M. K., 71
Aceria tulipae, vector of wheat streak mosaic, United States, 98
Achania, Adoretus versutus, West Pakistan, 101
Acrobeloide sp., hosts, Sudan, 111
Adoretus versutus, West Pakistan, 100
Agossa pinguinalis, grain, United States, 12
Agrobacterium tumefaciens, grapes, stone fruits, Argentina, 118
Agropyron repens, Cephalosporium gramineum, United Kingdom, 47
Ahmad, H., 135
Albizzia lebbek, Adoretus versutus, West Pakistan, 101
Aleurocanthus woglumi, citrus, Nicaragua, 70
Allium cepa, nematodes, Sudan, 110, 111
Alopecurus pratensis, Cephalosporium gramineum, Italy, 46
Alternaria sp., cotton, United States, 94
Alternaria tennuis, cotton, Peru, 134
Aonidiella aurantii, Chile, 27
Apanteles galleriae, parasite of *Galleria mellonella*, United States, 12
Apate monachus, date palm, North Africa, 10
Aphelenchus avenae, hosts, Sudan, 110, 112
Aphelinus mali, parasite of *Eriosoma lanigerum*, Chile, 26; India, 58
Aphis evonymi, sunflower, Yugoslavia, 130, 131
Aphis fabae, sunflower, Yugoslavia, 130, 131
Aphytis lepidosaphes, parasite of *Lepidosaphes beckii*, Chile, 27
Aphytis lignanensis, parasite of *Aonidiella aurantii*, Chile, 27
Apple, diseases, Argentina, 118
Armillaria mellea, tea, Kenya, 109
Artemisia campestris, infectious "degeneration", Italy, 81
Aspidiotus destructor, banana, Ecuador, 13
Aspidiotus perniciosus, Chile, 29

Bacillus lentimorbus, parasite of white grubs, Chile, 28
Bacillus popilliae, parasite of white grubs, Chile, 28
Banana, diseases, Mauritius, 109; pests, Ecuador, 13
Bap Reddy, D., 114
Barley, virus disease, Israel, 32
Barley yellow dwarf, oats, United States, 94
Bazán de Segura, C., 70, 132
Bean, diseases, Argentina, 119; Mauritius, 109
Bemisia gossypiperda, cotton, 55
Bental, A., 43
Berg, G. H., 58, 70
Bergonia, H. T., 77
Birds, date palm, North Africa, 8
Botrytis cinerea, grapes, Argentina, 118
Bouteloua aristidoides, rust, United States, 93
Bouteloua barbata, rust, United States, 93
Brachycaudus helichrysi, sunflower, Yugoslavia, 130, 131
Brevipalpus australis, see *B. californicus*
Brevipalpus bioculatus, see *B. obovatus*
Brevipalpus browningi, see *B. californicus*
Brevipalpus californicus, citrus, 141
Brevipalpus confusus, see *B. californicus*
Brevipalpus inornatus, see *B. obovatus*
Brevipalpus lewisi, citrus, 143
Brevipalpus mcbridei, see *B. phoenicis*
Brevipalpus mcgregori, citrus, 146
Brevipalpus obovatus, citrus, 141
Brevipalpus papayensis, see *B. phoenicis*
Brevipalpus pereger, see *B. obovatus*
Brevipalpus phoenicis, citrus, 143
Brevipalpus pseudocuneatus, see *B. phoenicis*
Brevipalpus woglumi, see *B. californicus*
Brevipalpus vothersi, see *B. phoenicis*

Cabbage, disease, Argentina, 119
Cacao, black pod, West Africa, 53; cushion gall, British Honduras, 109; disease, Malaya, 1; quarantine, 89; swollen shoot, West Africa, 65
Caerois gerdrudtus, banana, Ecuador, 13
Calcat, A., 5
Caligo spp., banana, Ecuador, 13
Candia Zevallos, D., 37
Capsicum, diseases, Argentina, 119
Carthamus tinctorius, free from nematodes, Sudan, 112
Cassidix mexicanus mexicanus, maize, Mexico, 37
Castellani, E., 57
Castillo, B. S., 77, 105
Celery, diseases, Argentina, 119
Cephalobus nanus, hosts, Sudan, 111
Cephalobus sp., hosts, Sudan, 111
Cephalosporium gramineum, cereals, United Kingdom, 46
Ceramidia viridis, banana, Ecuador, 13, 16
Ceratitis capitata Nicaragua, 58
Cercospora canescens, beans, Mauritius, 109
Cercospora fuliginea, tomato, British Solomon Islands, 109
Cercospora gossypina, cotton, Peru, 134
Cercospora koepkii, sugar cane, British Solomon Islands, 109
Cercospora radiata f. *trifolii coerulei*, see *C. traversiana*
Cercospora traversiana, fenugreek, 19
Cercospora traversiana var. *trigonellae-coeruleae*, see *C. traversiana*
Cercospora trigonellae, see *C. traversiana*
Cereals, disease, United Kingdom, 46
Cerosipha gossypii, sunflower, Yugoslavia, 130, 131
Chaetophoma sp., coffee, India, 22
Cheiropachys colon, Chile, 25
Chenopodium amaranticolor, virus disease, Israel, 32
Chenopodium murale, virus disease, Israel, 32
Chilocorus bivulnerus, predator of *Aonidiella aurantii*, Chile, 27

Chrysolina hyperici, St. Johns-wort, Chile, 28
Chrysolina quadrigemina, St. Johns-wort, Chile, 28
Chrysopa spp., predator of date palm scale, North Africa, 9
Chrysophyllum cainito, *Ceratitis capitata*, Nicaragua, 59
Ciferri, R., 79
Citrullus vulgaris, for scale breeding, India, 120
Citrus, disease, British Solomon Islands, 109; Malaya, 1; Zanzibar, 109; mites, leprosis, 141; pest, Nicaragua, 70; tristeza, Mediterranean area, 43
Citrus paradisi, free from nematodes, Sudan, 112
Citrus sinensis, blackfly, Nicaragua, 70; nematodes, Sudan, 110, 111
Cladosporium herbarum var. *citricolum*, 142
Coccophagus gurneyi, parasite of *Pseudococcus*; Chile, 26
Coccophagus modestus, parasite of *Saissetia oleae*, Chile, 27
Coccophagus ochraceus, parasite of *Saissetia oleae*, Chile, 27
Coccophagus trifasciatus, parasite of *Saissetia oleae*, Chile, 27
Cochliobolus miyabeanus, rice, Dominican Republic, 57
Coconut, boang disease, Philippines, 105; disease, Malaya, 2
Coffee, disease, India, 22; Philippines, 11
Cola chlamydantha, swollen shoot, Ghana, 68
Colletotrichum lagenarium, cucurbits, 120
Commonwealth Entomological and Mycological Conference, 52
Coniothecium chomatosporum, apple, Argentina, 118
Corchorus olitorius, free from nematodes, Sudan 112
Cordana musae, banana, Mauritius, 109
Corte, A., 79
Coryneum carpophilum, stone fruits, Argentina, 118
Cosmopolites sordidus, banana, Ecuador, 13
Cotton, damage by 2,4-D, Sudan, 55; diseases, Peru, 132; leaf curl, Egypt, 71; pest, Rhodesia and Nyasaland, 113; rust, United States, 93; wilt, Peru, 86
Cryptochaetum iceryae, parasite of *Icerya purchasi*, Chile, 26
Cryptolaemus montrouzieri, predator of *Pseudococcus*, Chile, 26
Cucumber, disease, Mauritius, 109
Cucumis sativus, nematodes, Sudan, 111
Cucurbita maxima, for scale breeding, India, 120
Cucurbita pepo var. *cucurbitella*, infectious degeneration, Italy, 80; for scale breeding, India, 120
Curvularia, oil palm, Malaya, 2
Cushion gall, cacao, British Honduras, 109
Cybocephalus dactylus, predator of date palm scale, North Africa, 9
Cybocephalus flaviceps, predator of date palm scale, North Africa, 9
Cybocephalus palmarum, predator of date palm scale, North Africa, 9
Cybocephalus spp., predator of date palm scale, North Africa, 9
Cycloconium oleaginum, olive, Argentina, 119
Cynodon dactylon, North Africa, 10.
Cytospora, sp., apple, Argentina, 118

Dacus dorsalis, United States, 136
Date palm, diseases, pests, North Africa, 5
Datura arborea, "infectious degeneration," Italy, 79
Datura stramonium, "infectious" degeneration, Italy, 80
Datura stramonium var. *inermi*, "infectious degeneration," Italy, 80
Decker, H., 110
Diabrotica virgifera, United States, 47
Diaphania indica, United States, 47
Dilophospora alopecuri, wheat, India, 114
Dolichos lablab, free from nematodes, Sudan, 112
Dorylaimus filiformis, hosts, Sudan, 111
Dorylaimus, sp. hosts, Sudan, 111
Douglas fir, pest, United States, 12

Egyptian clover, disease, Pakistan, 124
Elsinoe fawcettii, citrus, British Solomon Islands, 109; citrus, 143
El-Tigani Mohamed El-Amin, 110
Ephestia, dates, North Africa, 10
Eriosoma lanigerum, Chile, 26; India, 58
Erwinia amylovora, 118
Erwinia vitivora, grapes, Argentina, 118
Erysiphe malachrae, cotton, Peru, 133
Escober, J. T., 77
Eucephalobus elongatus, hosts, Sudan, 111
Eucephalobus striatus, hosts, Sudan, 111
Eugenia jambolana, *Adoretus versutus*, West Pakistan, 101
European Symposium on Virus Diseases of Fruit Trees, 76
Exochomus uropygialis, predator of *Eriosoma lanigerum*, India, 58

FAO Meeting on Date Production and Processing, 88
FAO Meeting on Rice Production and Protection, 63
Feldman, J. M., 117
Fenugreek, *Cercospora traversiana*, 19
Foeniculum vulgare, free from nematodes, Sudan, 112
Fomes, cotton, Peru, 134
Frankliniella parvula, banana, Ecuador, 13, 15
Fusarium oxysporum var. *albedinis*, date palm, North Africa, 6
Fusarium roseum, cereals, United Kingdom, 46
Fusarium solani, potatoes, Argentina, 119
Fusarium spp., coffee, India, 22; rice, Malaya, 3
Fusarium vasinfectum, capsicum pepper, Argentina, 119
Fusicladium dendriticum, apple, Argentina, 118
Fusicladium pirinum, pear, Argentina, 118

Galleria mellonella, United States, 12
Ganoderma lucidum, oil palm, Malaya, 2
Georg, K. V., 22
Ghouri, A. S. K., 135
Ginsburg, O., 43

Glomerella tucumanensis, sugar cane, British Solomon Islands, 109
Goldberg, J. B., 113
Gossypium barbadense, see cotton
Gossypium hirsutum, see cotton
Gossypium sp., nematodes, Sudan, 110, 111
Grapevine, diseases, Argentina, 118; "infectious degeneration," Italy, 79
Gray, E. G., 46
Groundnuts, disease, Mauritius, 109
Gynaicothrips sp., United States, 47

Haplothrips clarisetis, lettuce, United States, 12
Helminthosporium gossypii, cotton, Peru, 134
Helminthosporium gramineum, cereals, United Kingdom, 46
Helminthosporium oryzae, rice, Dominican Republic, 57; Malaya, 3
Heterodera glycines, United States, 47
Heterosporium alii-cepae, onion, India, 114
Hibiscus dongolensis, pink bollworm, Rhodesia and Nyasaland, 113
Hibiscus sabdariffa, free from nematodes, Sudan, 112
Hieroglyphus nigrorepletus, swarms, Pakistan, 135
Hippodamia convergens, Chile, 25
Hoja blanca, rice, Honduras, 22; United States, 98
Homadaula albizziae, United States, 47
Hopkins, J. C. F., 109
Hylamorpha elegans, Chile, 27
Hypera postica, United States, 47
Hypericum perforatum, control, Chile, 28

Ibrahim, I. A., 71
Icerya purchasi, Chile, 26
Imperata cylindrica, North Africa, 10
Inter-American Cacao Conference, 63
International Conference on Citrus Viruses, 75
International Conference on Scientific Problems of Plant Protection, 127
International Conference on Seed Pathology, 75
International Meeting on Organization and Methods of Plant Protection, 64
International Plant Protection Convention, 127
International Union for Conservation of Nature and Natural Resources, 52
Isla Marco, R., 25

Johnston, A., 1

Kausar, A. G., 124
Kenneth, R., 31
Khan, I. U., 124
Knorr, L. C., 141

Laspeyresia fletcherana, Douglas fir, United States, 12
Leaf curl, cotton, Egypt, 71
Lean, O. B., 82
Lecaniobius utilis, parasite of *Saissetia oleae*, Chile, 27
Lepidosaphes beckii, citrus, Chile, 27
Leppik, E. E., 19
Leptomatidae abnormis, parasite of *Pseudococcus*, Chile, 26
Leptomastix dactylopii, parasite of *Pseudococcus*, Chile, 26
Lettuce, thrips, United States, 12
Ligustrum lucidum, "infectious degeneration," Italy 79, 81
Ligustrum ovalifolium, "infectious degeneration," Italy, 79, 81
Lindorus lophantae, predator of *Aonidiella aurantii*, Chile, 27
Linum usitatsisimum, free from nematodes, Sudan, 112
Locusta migratoria migratorioides, 82
Lupinus termis, free from nematodes, Sudan, 112
Lycopersicum esculentum, nematodes, Sudan, 111

Macrosporium nigricantium, cotton, Peru, 134
Mahonia japonicum, "infectious degeneration," Italy, 79
Maize, bird damage, Mexico, 37; rust, British Solomon Islands, 109
Malaguti, G., 141
Mangifera indica, *Adoretus versutus*, West Pakistan, 101; *Ceratitis capitata*, Nicaragua, 59
Maramorosch, K., 105
Martínez, A. L., 77
Mauguiniella scaettae, date palm, North Africa, 6, 8

McGrath, H., 93
Meconema thalassinum, United States, 12
Medicago sativa, nematodes, Sudan, 110, 111
Meloidogyne incognita var. *acrita*, cotton, Peru, 132
Melon, disease, Argentina, 119
Metaphycus helvolus, parasite of *Saissetia oleae*, Chile, 27
Metaphycus lounsburyi, parasite of *Saissetia oleae*, Chile, 27
Metaphycus stanleyi, parasite of *Saissetia oleae*, Chile, 27
Metarrhizium anisopliae, parasite of white grubs, Chile, 28
Miller, P. R., 93
Mimusops elengi, *Phytophthora palmivora*, West Africa, 54
Molothrus ater ater, maize, Mexico, 37
Morus spp., *Adoretus versutus*, West Pakistan, 101
Musa paradisiaca, pests, Ecuador, 14
Mycosphaerella arachidicola, groundnuts, Mauritius, 109
Mycosphaerella musicola, banana, Ecuador, 16; Mauritius, 109
Myelois decolor, dates, North Africa, 10
Myzus persicae, vector of sunflower mosaic, 131

Natural Rubber Research Conference, 52
Necaplectana sp., parasite of white grubs, Chile, 28
Nitzany, F. E., 31
Noble, M., 46
Nomadacris septemfasciata, 82
Nour, M. A., 55

Oats, barley yellow dwarf, United States, 94
Oidium, potatoes, Argentina, 119
Oidium ambrosiae, cucurbits, Argentina, 119
Oidium erysiphoides, beans, peas, Argentina, 119
Oidium farinosum, apple, Argentina, 118
Oidium leucoconium, peach, Argentina, 118
Oidium tuckeri, grapes, Argentina, 118
Oil palm, disease, Malaya, 2
Olive, diseases, Argentina, 119
Onion, disease, India, 114
Opsiphanes tamarindi, banana, Ecuador, 13
Orcus chalybeus, predator of *Aonidiella aurantii*, Chile, 27
Oryzaephilus, dates, North Africa, 10
Ovulariopsis gossypii, cotton, Peru, 133

Palleucothrips musae, banana, Ecuador, 13, 14
Paratetranychus simplex, date palm, North Africa, 10
Parlatoria blanchardi, date palm, North Africa, 9
Peach, diseases, Argentina, 118
Pear, diseases, Argentina, 118
Peas, diseases, Argentina, 113, 119
Pectobacterium carotovorum, pineapple, Malaya, 3
Pennisetum typhoides, nematodes, Sudan, 111
Pentalonia nigronervosa, banana, Ecuador, 13
Pharoscymnus numidicus, predator of date palm scale, North Africa, 10
Pharoscymnus ovoideus, predator of date palm scale, North Africa, 10
Pharoscymnus setulosus, predator of date palm scale, North Africa, 10
Pharoscymnus spp., predator of date palm scale, North Africa, 9
Phaseolus vulgaris, nematodes, Sudan, 110, 111
Phoma, coffee, India, 22
Phyllophaga bruneri, United States, 12
Phyllosticta sp., cotton, Peru, 134
Physcus "B", parasite of *Lepidosaphes beckii*, Chile, 27
Phytophthora, black pepper, Sarawak, 109; citrus, Malaya, 1; date palm, North Africa, 8
Phytophthora cactorum, apple, Argentina, 118
Phytophthora capsici, vegetables, Argentina, 119
Phytophthora citrophthora, walnut, Argentina, 119
Phytophthora infestans, potatoes, Argentina, 119; tomato, Malaya, 4
Phytophthora palmivora, cacao, West Africa, 53
Pineapple, diseases, Malaya, 3
Piper nigrum, diseases, Sarawak, 109
Piricularia oryzae, rice, Malaya, 3
Pisum sativum, diseases, Argentina, 113
Plant Protection and Quarantine Conference, 127
Plant Protection Committee for the Southeast Asia and Pacific Region, 104
Plasmopara viticola, grapes, Argentina, 118
Platanus orientalis, "infectious degeneration", Italy, 79
Platyedra gossypiella, cotton, Rhodesia and Nyasaland, 113
Pontis, R. E., 117
Portulaca oleracea, free from nematodes, Sudan, 112
Potato, diseases, Argentina, 119; Peru, 70
Pratylenchus sp., cotton, Peru, 132; hosts, Sudan, 110
Prionopelta sp., United States, 12
Prospaltella perniciosi, parasite of *Aspidiotus perniciosus*, Chile, 29; India, 120
Prune, diseases, Argentina, 118
Prunus myrabolana, "infectious degeneration," Italy, 79
Pseudococcus, gahani, Chile, 26
Pseudomonas pisi, peas, Argentina, 113
Pseudomonas savastanoi, olive, Argentina, 119
Pseudomonas solanacearum, tomato, Malaya, 3
Pseudoperonospora cubensis, cucumber, Mauritius, 109
Pseudoplea trifolii, Egyptian clover, Pakistan, 124
Psidium guajava, Adoretus versutus, West Pakistan, 101; nematodes, Sudan, 111
Puccinia cacabata, cotton, United States, 93
Puccinia polysora, maize, British Solomon Islands, 109
Puccinia stackmanii, see *P. cacabata*
Punica granatum, nematodes, Sudan, 111
Pythium oligandrum, apple, Argentina, 118

Quadraspidiotus perniciosi, biological control, India, 120
Quarantine legislation, Argentina, 60; Australia, 23; Belgium, 87; Brazil, 48; Chile, 87; Czechoslovakia, 72; Federation of Rhodesia and Nyasaland, 115; France, 88; Greece, 137; Guatemala, 125; India, 60; Israel, 48; Mexico, 102, 115; Netherlands New Guinea, 60, 125; New Zealand, 73; Norway, 102; Pakistan, 125; Poland, 23; Republic of Senegal, 150; Republic of the Philippines, 140; Spain, 73; Sweden, 33; United Kingdom, 51, 102, 103; United States, 88, 125; Venezuela, 126

Rao, V. P., 58, 120
Raphitelus maculatus, Chile, 25
Reichert, I., 43
Reyes, T. T., 11
Rhabditis spp., hosts, Sudan, 111
Rhamnus purshiana, "infectious degeneration," Italy, 79
Rhizobius ventralis, Chile, 25
Rhizoctonia solani, cotton, Peru, 133; potatoes, Argentina, 119
Rhvacionia buoliana, United States, 47
Rice, diseases, Dominican Republic, 57; Malaya, 3; hoja blanca, British Honduras, 22; mosaic, Philippines, 77; pest, United States, 12
Rodolia cardinalis, predator of *Iceriva purchasi*, Chile, 26
Rosa, spp., *Adoretus versutus*, West Pakistan, 101
Rose apple, *Ceratitis capitata*, Nicaragua, 59

Saissetia oleae, olive, Chile, 27
Salik, A. M., 100
Salix alba, "infectious degeneration," Italy, 81
Sapodilla, pest, United States, 12
Schistocerca gregaria, annual and monthly frequencies of infestation, 82; date palm, North Africa, 10
Sclerotinia sclerotiorum, cabbage, celery, Argentina, 119

Scolytus rugulosus, 25
Scutellista cyanea, parasite of *Saissetia oleae*, Chile, 27
Scymnus spp., predator of date palm scale, North Africa, 9
Selenaspidus articulatus, banana, Ecuador, 13
Selenothrips rubrocinctus, banana, Ecuador, 13, 17
Septoria apii, celery, Argentina, 119
Septoria apii-graveolentis, celery, Argentina, 119
Septoria lycopersici, tomato, Argentina, 119
Septoria pisi, peas, Argentina, 113
Sinoxylon conigerum, sapodilla, United States, 12
Sogata orizicola, vector of hoja blanca, United States, 98
Solanum melongena, nematodes, Sudan, 110, 111
Sorghum sp., free from nematodes, Sudan, 112
Spermospora subulata, rice, Dominican Republic, 57
Sphaceloma ampelinum, grapes, Argentina, 118
Spondylocladium atrovirens, potatoes, Argentina, 119
Squash, disease, Argentina, 119
Streptomyces scabies, potatoes, Argentina, 119
Stethorus punctillum, predator of red spider mites, Chile, 27
Sugar cane, diseases, British Solomon Islands, 109
Sunflower, disease, Yugoslavia, 129
Sutić, M., 129
Swollen shoot, cacao, West Africa, 65

Taphrinia deformans, peach, Argentina, 118
Tea, disease, Kenya, 109
Tenuipalpus australis, see *Brevipalpus californicus*
Tenuipalpus bioculatus, see *Brevipalpus obovatus*
Tenuipalpus californicus, see *Brevipalpus californicus*
Tenuipalpus inornatus, see *Brevipalpus obovatus*
Tenuipalpus obovatus, see *Brevipalpus californicus*
Tenuipalpus phoenicis, see *Brevipalpus phoenicis*
Tenuipalpus pseudocuneatus, see *Brevipalpus obovatus*
Tenuipalpus vitis, see *Brevipalpus californicus*
Terminalia arjuna, *Adoretus versutus*, West Pakistan, 101
Terminalia catappa, *Adoretus versutus*, West Pakistan, 101
Tetracnemus praetiosus, parasite of *Pseudococcus*, Chile, 26
Tetraneura hirsuta, rice, United States, 12
Thecaphora solani, potatoes, Peru, 70
Thielaviopsis basicola, cotton, Peru, 132
Thresh, J. M., 65, 89
Thrips tabaci, vector of sunflower mosaic, 131
Tinsley, T. W., 65
Tomato, diseases, Argentina, 119; British Solomon Islands, 109; Malaya, 3; "infectious degeneration," Italy, 81
Tranzschelia pruni-spinosae, peach, Argentina, 118
Trialeurodes vaporariorum, vector of sunflower mosaic, 131
Trichoconis padwickii, rice, Malaya, 3
Trifolium alexandrinum, disease, Pakistan, 124; free from nematode, Sudan, 112
Trifolium sp., nematodes, Sudan, 110, 111
Trigona spp., banana, Ecuador, 13, 17
Trigonella coerulea, see fenugreek
Trigonella foenum-graecum, see fenugreek
Tristeza, citrus, Mediterranean, 42
Triticum aestivum, nematodes, Sudan, 111
Tuberculina persicina, United States, 94
Turner, P. D., 53
Tylenchus sp., hosts, Sudan, 111

Uromyces phasecli typica, beans, Argentina, 119
Uromyces viciae-fabae, beans, Argentina, 119

Verticillium albo-atrum, cotton, Peru, 86, 132
Vicia faba, nematodes, Sudan, 110
Von der Pahlen, A., 113

Walnut, diseases, Argentina, 119
Watermelon, disease, Argentina, 119
Webster, B. N., 141
Wheat, disease, India, 114; streak mosaic, United States, 98
Whellan, J. A., 113
World Forest Congress, 116

Xanthomonas juglandis, walnut, Argentina, 119
Xanthomonas malvacearum, cotton, Peru, 133
Xanthomonas pruni, prune, Argentina, 118

Yoffe, I., 43
Young, W. R., 37
Yust, H. R., 13

Zinnia, *Adoretus versutus*, West Pakistan, 101

ERRATA

(The line numbers do not take account of titles and headings)

Page	26	column	2,	line	19	read	*Icerya*	for	*Iceria*
"	108	"	2,	"	28	"	Kasaragod	"	Kasangorod
"	111	"	2,	Figure	1	"	*Aphelenchus avenae*	"	*Pratylenchus* sp.
"	112	"	1,	Figure	2	"	*Pratylenchus* sp.	"	*Aphelenchus avenae*